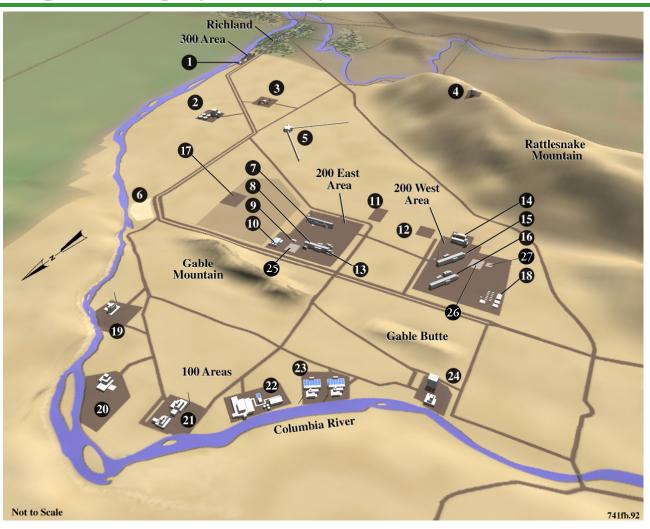
Columbia Center Rotary June 7, 2007

Zack Smith,
Acting Deputy Manager
Office of River Protection



Conceptual Map of the Hanford Site



1. 300 Area Liquid Effluent Treatment Facility 2. Commercial Operating Nuclear Power Plant 3. Fast Flux Test Facility

4. Observatory

5. Laser Interferometer Gravitational Wave Observatory

6. Old Hanford Town Site

7. Plutonium Uranium Extraction Plant

8. B Plant

9. Prototype Engineered Barrier

10. 200 East Area Effluent Treatment Facility

11. U.S. Ecology Commercial Solid Waste Site

12. Environmental Restoration and Storage Facility

13. Waste Encapsulation and Storage Facility

14. REDOX

15. U Plant

16. T Plant

17. Waste Treatment Plant

18. Waste Receiving and Processing Facility

19. F Reactor

20. H Reactor

21. D and DR Reactors

22. N Reactor

23. KE and KW Reactors

24. B and C Reactors

25. C Tank Farm

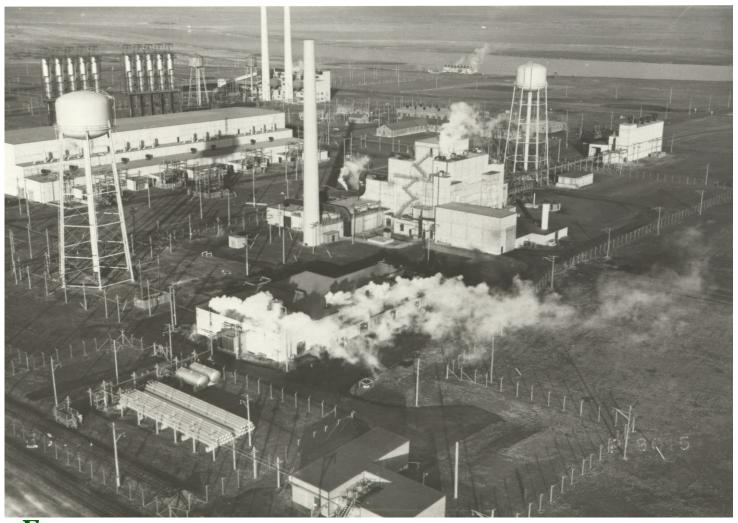
26. DBVS

27. S Tank Farms



Environmental Management safety performance cleanup closure

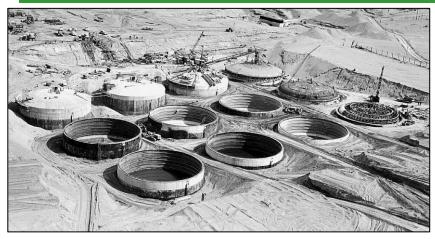
Hanford's B Reactor, as it stood in 1945





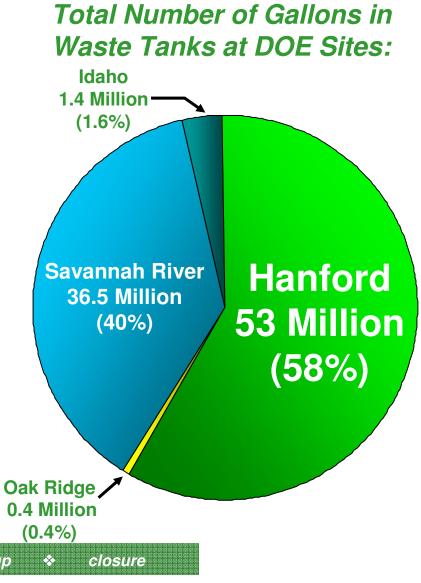
** M Environmental Management safety * performance * cleanup * closure

Hanford Tank Waste Cleanup Challenge



Hanford has:

- □ 63% of DOE tanks; 80% of DOE single-shell tanks
- 58% of DOE total tank waste
- ~194 million curies of radioactivity in tanks (148 million already removed)
- ~190,000 tons of chemicals





Environmental Management performance safetv

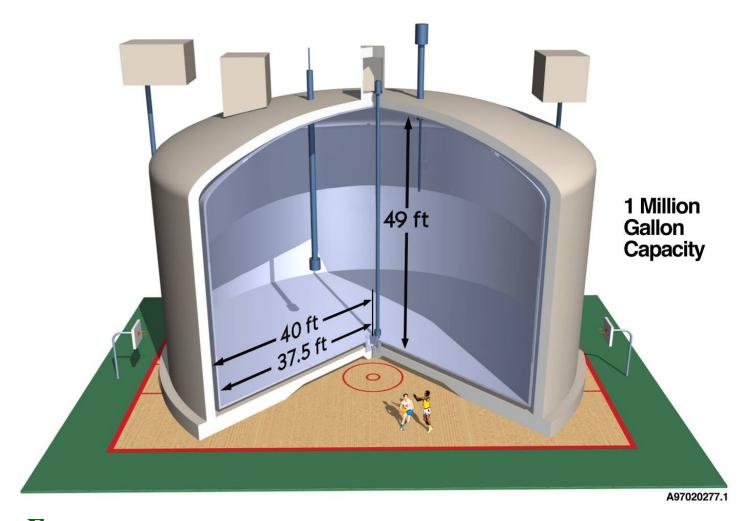
cleanup

Double-Shell Tanks under construction





EM Environmental Management
safety * performance * cleanup * closure





EM Environmental Management
safety & performance & cleanup & closure



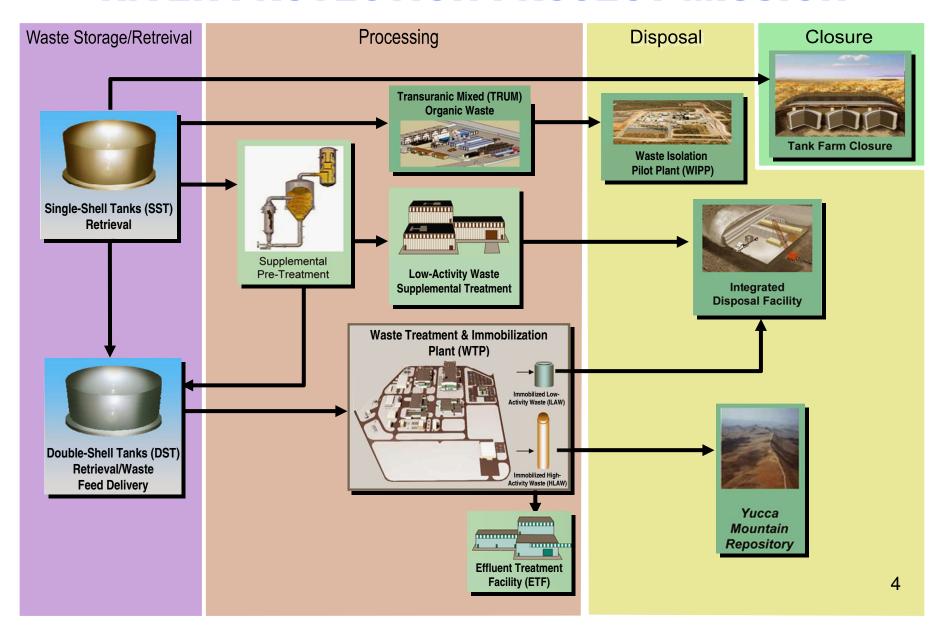








RIVER PROTECTION PROJECT MISSION

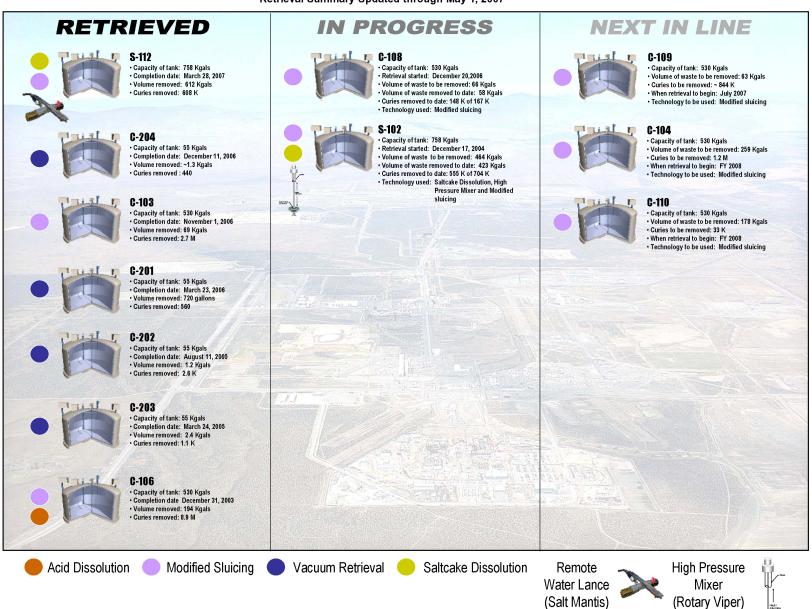




CH2MHILL Hanford Tank Cleanup Status Office River Production



Retrieval Summary Updated through May 1, 2007



New Innovative Tank Waste Retrieval Technologies

- Technologies based on waste characteristics and each tank's physical condition
- Demonstrating achievability of 99% waste retrieval
- Working with State of Washington and Nuclear Regulatory Commission on retrieval effectiveness
- Managing available Double-Shell tank space

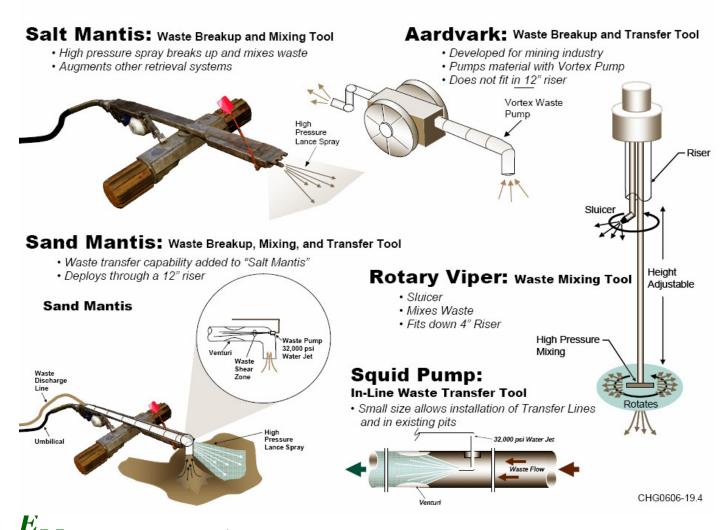






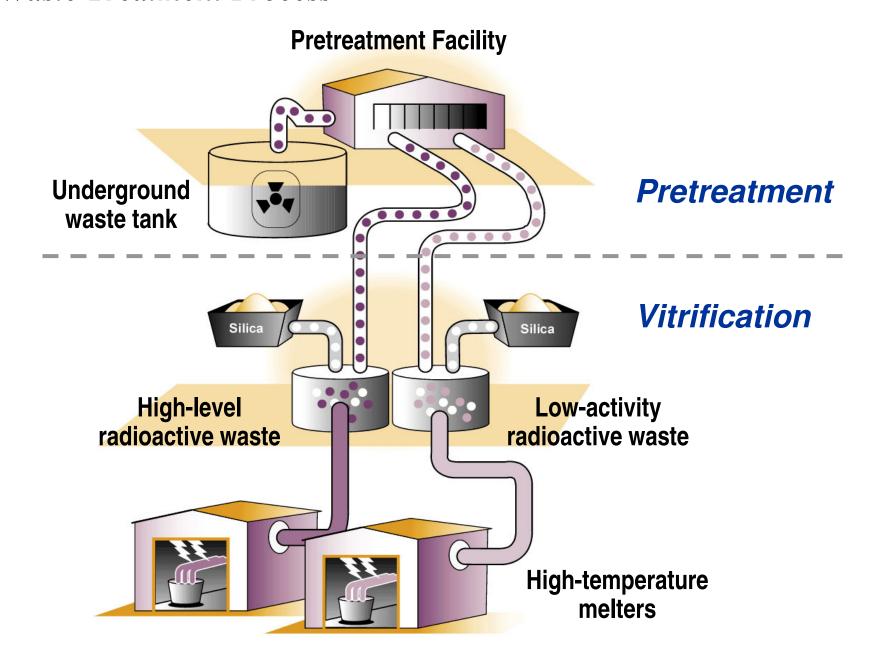


New Innovative Tank Waste Retrieval Technologies





Waste Treatment Process



How is the Vitrified Waste Stored?

High Level Waste Canisters

- 2' X 14.5'
- 6,600 pounds of glass
- Temporarily stored in Hanford's Canister Storage Building until national repository built

Low Activity Waste Containers

- 4' X 7.5'
- 13,000 pounds of glass
- Stored at Hanford's Central Plateau





EM Environmental Management

Aerial view of the Waste Treatment Plant (WTP) site

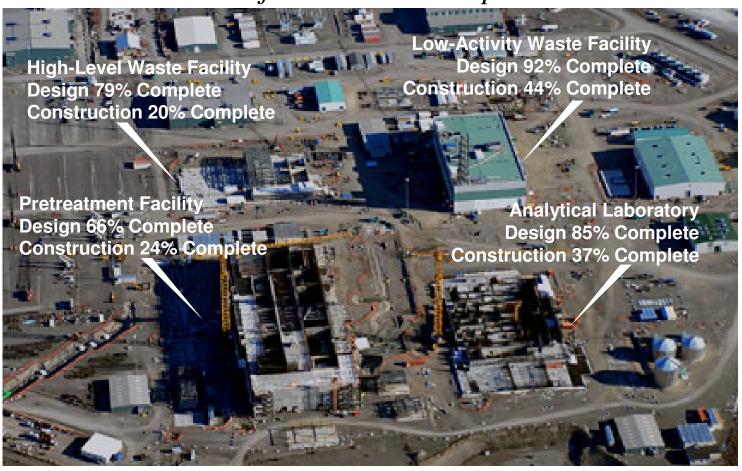
- The WTP site is located on 63 acres
- To date the project has
 - Poured 171,800 cubic yards of concrete
 - Installed 33,800 tons of rebar
 - Installed 41 miles of piping
 - Installed 8,750 tons of structural steel





EM Environmental Management

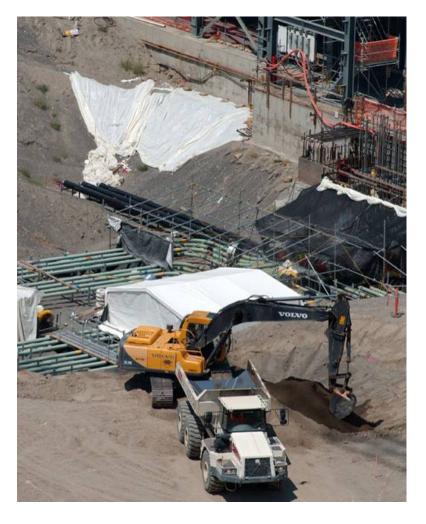
Overall Project Percent Complete is 37%





**Environmental Management safety * performance * cleanup * closure

Excavation on Pretreatment Facility





EM Environmental Management

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